

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)

KLAUS BOHNERT, et al.)

Application No.: Unassigned)

Filed: January 5, 2001)

For: FIBER OPTIC CURRENT SENSOR)

Group Art Unit: Unassigned

Examiner: Unassigned

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to examination of the above-captioned patent application, kindly enter the following amendments.

IN THE CLAIMS:

Please replace Claims 1-7 as follows.

1. (Amended) A fiber optic current sensor having a coiled sensor fiber which encloses a current conductor (S), and at least one phase delay element adjoining the sensor fiber, characterized in that the at least one phase delay element has a phase delay with a temperature dependence which at least approximately compensates for a temperature dependence of a Verdet's constant (V) of the sensor fiber.

2. (Amended) The current sensor as claimed in claim 1, characterized in that the at least one phase delay element has a phase delay angle whose value deviates from a phase delay angle of an ideal phase delay element.